

CHAPTER 1

INTRODUCTION

1-1. GENERAL.

WARNING

Unauthorized modification to, and deviations from, prescribed life support and survival equipment by individual aircrewmembers could create unknown safety hazards. The OPNAVINST 3710.7 Series specifies minimum requirements for such equipment and is supplemented by the individual model NATOPS.

1-2. The OPNAVINST 4790.2 Series identifies NAV-AIRSYSCOM as the only authority for modification to life support and survival equipment, which is usually accomplished by the Fleet Support Team (FST) (formerly CFA) via Aircrew System Changes or a change to the equipment procurement package. This manual permits an operating activity, with approval of the controlling custodian, to conditionally modify one unit of equipment in-service in order to correct or overcome unsatisfactory conditions in that equipment item. Any other type of deviation, peculiar configuration, or modification to life support and survival equipment is not allowed, and Aircrew Survival Equipmentmen have no authority or responsibility to perform them.

1-3. If an omission or conflict should occur between FST documents and NATOPS requirements, if there is a need for clarification of equipment configuration, or if equipment deficiencies are discovered, the applicable FST should be notified. The FST for rescue and survival equipment is Commander, Naval Air Warfare Center Aircraft Division (NAWCAD), Attn: 4.6.3.3, Bldg 2187, Patuxent River, MD 20670-1906.

1-4. NAVAIRWARCENACDIV DET, Indianapolis, IN 46219, has cognizance over all survival radios and emergency beacons.

1-5. The Aviation-Crew Systems Manual is released under the authority of the Naval Air Systems Command in compliance with the request of the Chief of Naval Operations. The instructions contained herein are mandatory. This series of manuals consists of separately bound volumes, as listed below:

Title	Publication Number
Inflatable Survival Equipment (Liferafts)	NAVAIR 13-1-6.1-1
Inflatable Survival Equipment (Life Preservers)	NAVAIR 13-1-6.1-2
Parachutes	NAVAIR 13-1-6.2
Seat Survival Kits (Oxygen Hoses and Non-SKU Seat Kits)	NAVAIR 13-1-6.3-1
Seat Survival Kits (SKU Series Seat Kits)	NAVAIR 13-1-6.3-2
Oxygen Equipment (Aircraft Equipment, Masks, and Other Systems)	NAVAIR 13-1-6.4-1
Oxygen Equipment (Regulators)	NAVAIR 13-1-6.4-2
Oxygen Equipment (Concentrators)	NAVAIR 13-1-6.4-3
Oxygen Equipment (Converters)	NAVAIR 13-1-6.4-4
Rescue and Survival Equipment	NAVAIR 13-1-6.5
Aircrew Personal Protective Equipment (Aircrew/Passenger Equipment)	NAVAIR 13-1-6.7-1
Aircrew Personal Protective Equipment (Clothing)	NAVAIR 13-1-6.7-2
Aircrew Personal Protective Equipment (Helmets and Masks)	NAVAIR 13-1-6.7-3
Aircrew Personal Protective Equipment (Protective Assembly, Aircrew Survival - Armor)	NAVAIR 13-1-6.7-4
Special Mission Aircrew Equipment	NAVAIR 13-1-6.10

1-6. The purpose of each volume is to provide technical information related to the configuration, application, function, inspection, and maintenance of a particular

NAVAIR 13-1-6.5

category of aircrew safety and survival equipment. The information contained in each volume is intended for Organizational, Intermediate, and Depot Levels of maintenance as established within the Naval Aviation Maintenance Program (OPNAVINST 4790.2 Series).

1-7. DESCRIPTION OF NAVAIR 13-1-6.5.

1-8. CONTENTS. This volume contains information on configuration, application, function, inspection, and maintenance of Rescue and Survival Equipment.

NOTE

Technical Data Information Package (TDIP) videos related to the equipment listed in this manual can be obtained from the regional FAILSAFE Tiger Team.

1-9. CONFLICTS AND SUPERSEDURES. This volume shall take precedence over all other documents except for effective related Aircrew System Changes, Interim Aircrew System Changes, and Aircrew System Bulletins. These documents are effective until officially rescinded, cancelled, or superseded.

1-10. The modifications section of each chapter lists all effective changes and bulletins which affect rescue and survival equipment that have been issued on or before the date of latest change or revision to this volume. When applicable, the subject matter of these documents has been incorporated within the text of the appropriate chapters of this volume.

1-11. Effective changes and bulletins which affect rescue and survival equipment and are issued between changes or revisions to this volume should be recorded in the modification section of the manual for the affected equipment by annotating the outer margin of the page with a vertical line and the number of the change or bulletin. A copy of the change or bulletin should be filed in a separate binder in the ALSS work center. When this volume is updated these documents will be listed in the modification section of the applicable chapter and the text of the chapter updated to reflect these changes and bulletins.

1-12. UPDATING. This volume will be updated periodically by the issuance of a revision, which is a 100 percent replacement of pages. Between revisions, changes and rapid action changes will be released, which are partial replacements of pages. All added and changed pages shall be incorporated into the volume according to page number. Superseded and deleted pages

shall be discarded. A list of effective pages is provided with each change. A summary of the major changed areas for a particular change is located directly beneath the list of effective pages.

1-13. COMMENTS AND RECOMMENDATIONS.

Comments and recommendations shall be submitted using established deficiency reporting systems in accordance with OPNAVINST 4790.2 series.

1-14. ENGINEERING DRAWINGS. Government engineering drawings are available to the fleet by submitting a letter of request to Commanding Officer, Naval Air Technical Data and Engineering Service Command, Naval Air Station North Island P.O. Box 357031, Building 90 Distribution, San Diego, CA 92135-7031. Each request should include the equipment nomenclature, part number, and CAGE code. The drawings will be provided in the form of aperture cards (Automatic Data Processing Punch Cards).

1-15. TECHNICAL DIRECTIVES AND FORMS.

Activities may obtain copies of Technical Directives and Forms by submitting a requisition using Routing Identifier NFZ to the Naval Inventory Control Point-Philadelphia using the Automatic Digital Network (AUTODIN). Transmissions should be made to the routing indicator (COMMRI RUCIZZA). In cases where AUTODIN capability is not available, full MILSTRIP in message format should be submitted to DAAS Dayton, Ohio (COMMRI RUEOZNA).

1-16. QUALITY ASSURANCE. Quality assurance steps are provided for critical operations. When a step is underlined, the Aircrew Survival Equipmentman shall perform the operation, then have performance verified by a Quality Assurance Inspector (CDI-CDQAR-QAR) as established within the Naval Aviation Maintenance Program (OPNAVINST 4790.2 Series) prior to proceeding to the next operation. In no case shall an Aircrew Survival Equipmentman perform his/her own quality assurance inspection.

1-17. ALLOWANCE LISTING OF RESCUE AND SURVIVAL EQUIPMENT.

1-18. NAVAIR 00-35QH-2 establishes the allowance listing for applicable rescue and survival equipment. The allowance is generally determined by the number of aircrewmember seats (stations) aboard the aircraft and the specific duties required for the aircrewmember. A specific spare allowance is provided for extra flight crew requirements, assemblies down for rework awaiting replacement units and inspection cycle spares.

1-19. LEVELS OF MAINTENANCE.

1-20. Inspection, repair, and overhaul shall be performed at the established level of maintenance in accordance with and as defined in the OPNAVINST 4790.2 Series. In cases of necessity, such as at very small activities, Organizational and Intermediate Levels may be combined within local capabilities. It is recognized that, due to conditions other than those assumed here, minor deviations to procedures outlined in this manual may be unavoidable.

1-21. SUPPLEMENTARY PUBLICATIONS.

1-22. In addition to Interim Aircrew Systems Bulletins and Changes and Aircrew Systems Bulletins and Changes which are still in effect, the following publications supplement this volume.

1. NAVAIR 00-35QH-2, Allowance List, Aviation Life Support System and Airborne Operation Equipment for Aircraft Squadrons Navy and Marine Corps.

2. OPNAVINST 4790.2 Series, Naval Aviation Maintenance Program.

3. NAVAIR 11-100-1, Cartridges and Cartridge Actuated Devices for Aircraft and Associated Equipment.

4. NAVORD OP2213, Pyrotechnic, Screening and Dye Marking Devices.

5. NAVSUP 600, Naval Logistical Library.

6. NAVSUPINST 4423.29, Naval Material Command (NMC) Uniform Source, Maintenance and Recoverability (SM&R) Codes.

7. NAVAIR 01-1A-509, Cleaning and Corrosion Control Manual.

8. Applicable Aircraft Maintenance Instruction Manuals and NATOPS Flight Manual.

9. NAVAIR 16-30URT33-1, Beacon Sets, Radio AN/URT-33A.

10. NAVAIR 16-30PRC90-2, Radio Set AN/PRC-90 and AN/PRC-90-2.

11. NAVAIR 16-30PRC90-4, Radio Set AN/PRC-90 and AN/PRC-90-2 Illustrated Parts Breakdown.

12. NAVAIR 16-35PRC112-1, Radio Set AN/PRC-112-1 and Loader KY-913/PRC-112.

13. NAVAIR 16-35PRC125-1, Radio Set AN/PRC-125.

14. NAVAIR 16-30PRT5-1, Transmitting Set, Radio AN/PRT-5.

15. NWP 3-50.1 Series, Naval Search and Rescue (SAR) manual.

16. NAVAIR 00-25-300, Naval Air System Command Technical Directives System.

17. NAVAIR 16-45-716, Portable Refill System (PRS).

18. NAVAIR 16-30PRC149-1, Radio Set AN/PRC-149 and C-12631/PRC-149, Radio Control Unit.

19. NAVAIR 16-30URT140-1, Radio Beacon Set, AN/URT-140.

1-23. DEFINITIONS.

1-24. The following is a list of definitions used in this volume:

WARNING

Indicates danger to personnel. The warning precedes the item to which it refers.

CAUTION

Indicates danger to the equipment. The caution precedes the item to which it refers.

NOTE

An information item. The note may precede or follow the item to which it refers.

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